

SUBJECT: KEYBOARD LOCK

DATE: September 23, 1937

TO ALL OFFICES:

A device has been added to the LA-5 and LA-6 models to eliminate the possibility of the keys restoring when the carriage is shifted either by means of the 2793 knob, 21-83 carriage shifter handle, or during automatic division or multiplication.

FUNCTION

As the rearward end of the L.H. carriage lock is raised upward due to being latched on the carriage lock ledge, the front end of the lock moves downward as indicated by arrow (A). Stud (B) being riveted to the front end of the lock also moves downward and causes a rearward movement of lever (C) due to a slotted arm of the lever fitting over stud (B). This rearward movement of lever (C) (see arrow (D)) positions the lever in the path of the 4115 or 4115 $\frac{1}{2}$ lock bar (E) until the carriage is returned to its neutral downward position. When lever (C) is located in the path of the lock bar, it prevents any movement of the bar toward the left, thereby eliminating the only possible means by which the keys could restore. See inset. When the carriage is returned to its normal downward position, lever (C) moves forward and permits movement of the lock bar toward the left. The use of this added mechanism prevents the possibility of the keys pre-restoring during automatic division or multiplication because of the fact that lever (C) cams the lock bar (E) back into its holding position each time the lever moves rearward.

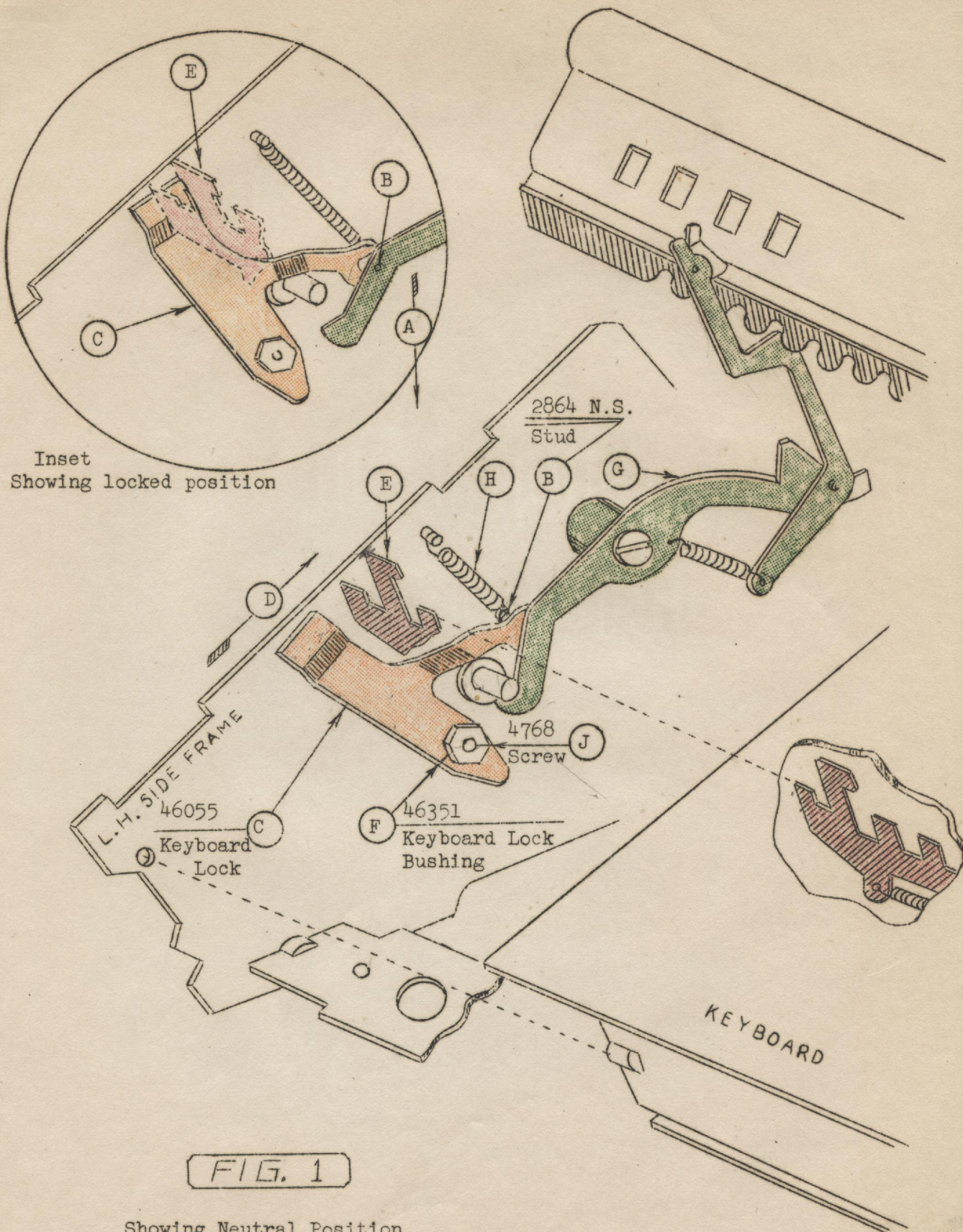
HOW TO INSTALL

- 1 Remove the carriage and cover case.
- 2 Remove the keyboard and lift out the first ten selecting bails from the left.
NOTE: Number the bails before removing with a pencil or scribe so as to keep them in order for reinstalling in the machine.
- 3 Disconnect spring (H) and remove the L.H. carriage lock (G) and install a 2864 N.S. stud (B) in the spring hole of the lock as shown.
- 4 Reassemble the carriage lock to the machine.
- 5 Remove the original retaining nut from the 4768 screw (J).
- 6 Install lock lever (C) as shown and assemble spring (H) to the 2864 stud.
- 7 Install hexagon bushing (F) on the 4768 screw to secure the lock lever (C) in place.
- 8 Adjust the lock lever (C) as close to the lock bar (E) as is possible without causing it to bind.
- 9 Install the selecting bails, keyboard, cover case and carriage to the machine.

MATERIAL TO REQUISITION

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| 1 | 46055 | Keyboard lock arm |
| 1 | 2864 | N.S. Stud |
| 1 | 46351 | Keyboard lock bushing |

Approximate time to install 90 minutes.



F. M. Smith

General Service Manager